

Southern California HUD Center Imagines Mars!

Students at the Coleman-James Learning Center, a Housing and Urban Development Neighborhood Network in Pasadena California, "selected" 20 model citizens to make up the first futuristic community on Mars. Before determining what characteristics the first martian settlers should have, students considered the environment on Mars and whether or not it would be able to sustain human life. Once the challenges of starting a martian community were understood, students worked to identify what human characteristics would be most desirable in the citizens they selected. Students used information about historical heroes like Caesar Chavez,

Helen Keller and Sacagawea to come up with character lists and then personally determined which characteristics they would most like to develop in themselves. Finally, the students created their 3-D "model" citizens out of paper and indicated the characteristics that each citizen brought to the new community.

This two-session Project idea and others like it will soon be posted on the web. If you'd like to try this project in your classroom or after-school program now, please contact Imagine Mars Headquarters at 818-393-6729 or email ImagineMars@jpl.nasa.gov.

Would Your Students Like to Talk to a NASA Scientist about Mars?

Just upload your Imagine Mars Project to the Project Gallery and the team at Imagine Mars Headquarters will set up an online chat or phone call with your group and a scientist or engineer from NASA.

<http://imaginemars.jpl.nasa.gov/gallery>



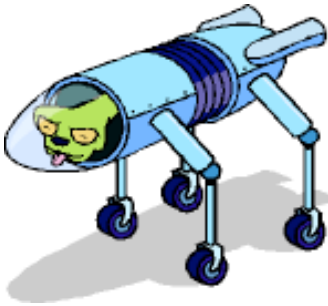
PROJECT OF THE MONTH



The Redd School in Houston, Texas is November's Project of the Month. The entire school spent over five weeks thinking about community, art and Mars. Their finished "Mars Museum" included communities for 100 colonists, martian gardens, martian fossils, lifeforms, martian alphabets, transportation ideas, journaling and more. According to Project Leader Lollie Garay, "Everyone agreed, this was the most successful, multi-level project to date!!"

Check out their cool project at:
<http://imaginemars.jpl.nasa.gov/gallery>

Imagine Mars at the California Art Education Association 2004 Conference



November 12 marked the start of the 40th Annual California Art Education Conference hosted at the Riverside Convention Center in Riverside, California. Imagine Mars was present for this exciting gathering of art teachers and administrators with a booth and workshop.

The Imagine Mars Project was also featured at the annual Conference for the Advancement of Science Teachers (CAST) in Corpus Christi, Texas November 4-6.

**Imagine Mars
at November
Conferences**

Mars Exploration Rover Update

November 18, 2004

Spirit remains in excellent health and has survived more than 300 martian days on the red planet.

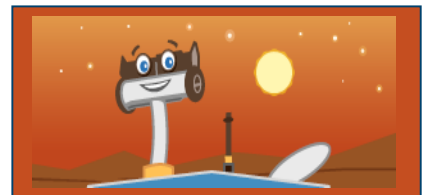
With the Sun still relatively low on the horizon in the early spring season on Mars, rover drivers are forced to seek driving routes that keep the rover and its solar panels tilted northward for energy reasons. That constraint, plus the rocky terrain, will challenge rover drivers in the coming weeks.

Opportunity's trek towards "Burns Cliff" continues. The journey has been much more difficult than anticipated. The rover has experienced drive slippage of up to 100 percent. The plan is to attempt a couple of sols of up-slope, switchback driving and then review options to get to Burns Cliff.

The rover team celebrated Opportunity's 300-percent mission success anniversary on sol 270. The rover is showing no signs of slowing down despite its advanced age. Spacecraft health is excellent, and solar power is plentiful.

To find out more about the rovers' adventures log on to:

<http://marsrovers.jpl.nasa.gov>



Become a Cooperating Organization

The Cooperating organization commitment forms are now online on the Imagine Mars Web site. We are seeking the help of education, arts, technology and science-focused organizations to help spread the word about the Imagine Mars project.

Cooperating organizations will receive special advance notification of new site features, special invitations to webcasts and have the opportunity to submit their education-related news for the Imagine Mars e-mail newsletter. The Imagine Mars Project will also recognize cooperating organizations on the project site and link to their websites.

In turn, cooperating organizations will be asked to post an official link from their sites to the Imagine Mars

project website and print periodic project-related news in e-mail and print newsletters about upcoming Imagine Mars events. Log on now to <http://ImagineMars.jpl.nasa.gov/about/become.html> and download your copy of the cooperating organization commitment form and help us on our mission to bring the Imagine Mars project to students everywhere.



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On behalf of the National Aeronautics and Space Administration (NASA) the National Endowment for the Arts (NEA), the Jet Propulsion Laboratory (JPL) in Pasadena, California manages the Imagine Mars Project as part of the Mars Public Engagement program, which seeks to educate the public about scientific discoveries and benefits of NASA's missions to Mars. JPL is a division of the California Institute of Technology.

About Imagine Mars...

The Imagine Mars Project is co-sponsored by NASA and the National Endowment for the Arts (NEA). It is a Web-based initiative that provides you with lesson plans, Mars facts and other resources to lead student project teams. The goal of the project is to encourage students to explore their home community, to interact with scientists, artists, and community leaders, and to understand the different planetary environments

on Mars. Ultimately, students complete a project that highlights the scientific and cultural elements they determine would be important to their imagined community on Mars.

The project site, <http://ImagineMars.jpl.nasa.gov>, contains participation guides, resources for project leaders, profiles of artists, engineers, and scientists, a project gallery and other interactive features.

